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TITLE: Superfinishing barrel rollers using oscillating tool -
turning rollers in vertical plane about their trajectory
of motion

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BASIC-ABSTRACT:

Rollers with a convex working surface can be superfinished by using a tool describing an oscillating motion while the rollers are rotated and moved continuously. For a finer finish, the rollers are also turned in the vertical plane about the trajectory of motion.

The roller (1) is based on roll mechanism (2) which imparts rotation and moves it along. Tool (3) describes oscillating motion. The roller is also turned in the vertical plane about its trajectory of motion. In each section, the tool works into only one cross-section of the roller, giving full contact with the abrasive bar. The full-contact zone moves from one end of the roller to the other so that the metal is taken off evenly. Great precision and fine finish are achieved.

TITLE-TERMS: SUPERFINISHING BARREL ROLL OSCILLATING TOOL TURN ROLL VERTICAL
PLANE TRAJECTORY MOTION

DERWENT-CLASS: P61

Формула изобретения

Способ суперфиниширования роликов в выпуклой поверхности качения, при котором инструмент содержит осциллирующее движение, а ролики обладают эластичностью и ограничением "напрямую", отличающийся тем, что, оцеля, полагаясь чистоты обработки поверхности, роликам по-

добавляют дополнительный поворот в тангенциальной плоскости относительно актора его перемещения.

Источники информации, принятые во внимание при экспертизе
1. Патент ГДР № 46176, кл. 67 24/01, 1964.
2. Патент ГДР № 46177, кл. 67 24/01, 1964.

